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#### Description

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The present invention relates to a facial cleanser, and more specifically relates to a facial cleanser which conteins powdered organopolysiloxane elastomer.

The following materials have been compounded in facial cleansers for the purpose of effectively removing foundation and make-up cosmetics: plant powders such as those obtained from hydrogenated jojoba oil and hydrogenated coconut oil, as well as the seeds and powders obtained from the apricot, almond, birch, walnut, peach, corn, sunflower, watermelon, etc.; powders of materials of animal origin such as powdered crab shell, powdered eggshell, etc., as well as those obtained from hydrogenated beef tallow and hydrogenated lard; organic powders such as those obtained from polyethylene, nylon, polypropylene, polyvinyl chloride, polystyrene, end cellulose; end inorgenic powders such as those obtained from eluminum oxide, silica, talc, end zirconium oxide (Cosmetics & Toiletries, Volume 101, July, 1986).

However, with regard to facial cleansers which contain such plant-based, animal-based, or inorganic powders as listed above, the compounded powders are not spherical, but rather have acute angles, and also have a high hardness, and as a consequence thereof, the facial cleanser can damage the skin when applied. Furthermore, the powders of natural origin contain various edmixed impurities, which can easily cause spoilege and promote skin imitation.

On the other hand, with regard to facial cleansers which contain organic powders, although the blended cosmetic will have a smooth application sensation when a spherical powder is used, it nevertheless evokes the sensation that a foreign-material is being applied to the skin due to the high hardness of the particles involved. Additionally, because contact with the skin is in the form of point contact, removal of dirt from the skin is unsatisfactory.

The object of the present invention is to solve the above problems by introducing a facial cleanser which will not irritate the skin, which is smooth in its application, and which efficiently removes organic dirt from the skin. The aforesaid object is achieved by a facial cleenser which characteristically contains an organopolysiloxane elastomer powder.

To explain the preceding, the organopolysiloxene elestomer used in the present invention provides the facial cleanser of the present invention with a smooth application sensation and does not irritate the skin. Furthermore, because the particles of the powder are elastic, the ramoval of organic dirt from the skin is improved because contact with the skin is changed from point contact to a surface contact under the effect of the pressure of epolication.

Moreover, silicones have recently been compounded into foundation and make-up cosmetics. Silicones have much lower surface tensions than other cosmetic starting materials and thus readily adhere to the skin. Prior faciel cleensers which contain non-silicone powders have en uneatisfactory elicone-removal action because these powders lack any affinity for silicones. The organopolysiloxane elastomer powder has affinity for the silicone starting materials compounded in cosmetics and thus can remove silicones adhering on the skin.

No specific restriction exists as to the type of curable organopolyeiloxane composition which can eerve as starting material for the organopolyeiloxane elastomer powder. Examples in this respect are addition reaction-curing organopolysiloxane compositions which cure under platinum metal catalysis by the addition reaction between SiH-containing diorganopolysiloxane and organopolysiloxane having silicon-bonded vinyl groups; condensation-curing organopolysiloxane compositions which cure in the presence of an organotin compound by a dehydrogenation reaction between hydroxyl-terminated diorganopolysiloxane and SiH-containing diorganopolysiloxane; condensation-curing organopolysiloxane compositions which cure in the presence of an organotin compound or a titanete ester, by a condensation reaction between an hydroxyl-termineted diorganopolysiloxane and a hydrotyzable organosilane (this condensation reaction is exemplified by dehydration, alcohol-liberating, oxime-liberating, amine-liberating, amide-liberating, carboxyl-liberating, and ketone-liberating reactions); peroxide-curing organopolysiloxane compositions which thermally cure in the presence of an organoperoxide catalyst; and organopolyeiloxane compositions which are curad by high-energy radiation, euch as by garrma-rays, ultraviolet radiation, or electron beams.

Addition reaction-curing organopolysitoxane compositions are preferred for their rapid curing rates and excellent uniformity of curing. A particularly preferred addition reaction-curing organopolysitoxane composition is prepared from:

- (A) an orgenopolysiloxane having et least 2 lower elkenyl groups in eech molecule;
- (B) an organopolysiloxane having at least 2 eilicon-bonded hydrogen atoms in each molacule; and
- (C) a platinum-type catalyst.

With regard to the abova, component (A) is the basic component of the silicone elastomer-generating organopolysiloxane, end curing proceeds by the addition reaction of this component with component (B) under catalysis by component (C). This component (A) must contain at least 2 silicon-bonded lower alkenyl groups

in each molecule; an excellent curad product will not be obtained at fewer than two lower alkenyl groups because a network structura will not be formed. Said lower alkenyl groups are exemplified by vinyl, allyl, and propenyl. While the lower sikenyl groups can be present at any position in the molecule, their presence at the motecular terminals is preferred. The molecular structure of this component may be straight chain, branched straight chain, cyclic, or network, but a straight chain, possibly slightly branched, is preferred. The molecular weight of this component is not specifically restricted, and thus the viscosity may range from low viscosity liquids to very high viscosity gums. In order for the cured product to be obtained in the form of the rubbery elestomer, it is preferred that the viscosity at 25 degrees Centigrade be et leest 1 cm2/s (100 centistokes). These organopolysiloxanes are exemplified by methylvinyisiloxanes, methylvinyisiloxane-dimethylsiloxane copolymers, dimethylvinylsiloxy-terminated dimethylpolysiloxsnes, dimethylvinylsiloxy-terminated dimethylsiloxanedimethylvinvisiloxymethylphenylsiloxene copolymers. dimethylsiloxsne-diphenylsiloxsne-methylvinylsiloxsne copolymers, trimethylsiloxy-terminated dimethylsiloxane-methylvinylsiloxene copolymers, trimethylsiloxy-terminated dimethylsiloxane-methylphenylsiloxsnemethylvinylsiloxane copolymers, dimethylvinylsiloxy-terminated mathyl(3,3,3-trifluoropropyl) polysiloxanes, and dimethylvinyleiloxy-termineted dimethylsiloxsne-methyl(3,3,3-trifluoropropyl)siloxane copolymera.

Component (B) is en organopolysiloxene heving at least 2 silicon-bonded hydrogen atoms in each molecule and is a crosslinker for component (A). Curing proceeds by the addition reaction of the silicon-bonded hydrogen atoms in this component with the lower sikenyl groups in component (A) under catalysis by component (C). This component (B) must contain at least 2 silicon-bonded hydrogen atoms in each molecule in order to function as a crosslinker. Furthermore, the sum of the number of silkenyl groups in each molecule of component (A) end the number of silicon-bonded hydrogen atoms in each molecule of component (B) is to be at least 5. Values below 5 should be avoided because a network structure is then essentially not formed.

No specific restriction exists on the molecular structure of this component, and it may be any of straight chain, branch-containing straight chein end cyclic. The molecular weight of this component is not epecifically restricted, but it is preferred that the viscosity at 25 degrees Centigrade be 0.01 to 500 cm<sup>2</sup>/e (1 to 50,000 centistokes) in order to obtain good miscibility with component (A). It is preferred that this component be edded in a quantity such that the molar rabo between the total quantity of eilicon-bonded hydrogen atoms in the Instant component end the total quantity of all lower alkenyl groups in component (A) falls within the range of (1.5:1) to (20:1). It is difficult to obtain good curing proparties when this molar ratio falls below 0.5:1. When (20:1) is exceeded, there is a tendency for the hardness to increase to high levels when the cured product is heated. Furthermore, when an organosiloxene containing substantial alkenyl is supplementarily added for the purpose of, for example, reinforcement, it is preferred that a supplemental addition of the Instant SiH-containing component be made in a quantity offsetting these alkenyl groups. This component is concretely exemplified by trimethylsiloxy-termineted methylhydrogenpolysiloxanes, trimethylsiloxy-termineted dimethylsiloxane-methylhydrogensiloxane cyclic copolymers.

Component (C) is a catelyst of the addition reaction of silicon-bonded hydrogen etoms end elkenyl groups, and is concretally exemplified by chloroplatinic acid, possibly dissolved in an alcohol or ketone and this solution optionally aged, chloroplatinic scid-olefin complexes, chloroplatinic acid-alkenylsiloxene complexes, chloroplatinic scid-diketone complexes, platinum black, and carrier-supported platinum.

This component is added preferably et 0.1 to 1,000 weight parts, and more preferably at 1 to 100 weight parts, as platinum-type metal proper per 1,000,000 weight parts of the total quantity of components (A) plus (B). Other organic groups which mey be bonded to silicon in the organopolysiloxane forming the basis for the ebove-described curable organopolysiloxane compositions are, for example, alkyl groups such as methyl, ethyl, propyl, butyl, end octyl; substituted alkyl groups such as 2-phanylethyl, 2-phenylpropyl, and 3,3,3-trifluoropropyl; aryl groups such as phenyl, tolyl, end xylyl; substituted aryl groups such as phenylethyl; and monovelent hydrocarbon groups eubstituted by, for example, the epoxy group, the carboxylate ester group and the mercapto group.

Examplee of the production of the organopolysiloxane elastomer powder ere as follows: an organopolysiloxane composition as described above (additional-curable, condensation-curable, or peroxide-curable) is mixed with water in the presence of e surfactant (nonionic, anionic, cabionic, or amphoteric), and, after mixing to homogeneity in a homomixer, colloid mill, homogenizer and propeller mixer, this is cured by discharge into hot water (temperature et least 50 degrees Centigrade) end is then dried; the organopolysiloxene composition (eddition-curable, condensation-curable, or peroxide-curable) is cured by spraying it directly into a heated current; the powder is obtained by curing a radiation-curable organopolysiloxane composition by spraying it under high-energy radiation; the organopolysiloxane composition (eddition-curable, condensation-curable, or peroxide-curable) or high energy-curable organopolysiloxane composition is cured, the latter by high-energy radiation, and the product is then pulverized using a known pulverizer such as, for example, a balt mill, atomizer, kneader and roll mill, to thereby form the powder.

From the standpoint of producing a small, spherical powder having a uniform particle size, the preferred method is to mix the organopolysiloxane composition (addition-curable, condensation-curable, or peroxide-curable) with water in the presence of surfactant (nonionic, anionic, cationic, or amphoteric) and then mix this to homogeneity using a homomixer, colloid mill, homogenizer and propeller mixer, followed by curing by discharge into hot water (at least 50 degrees Centigrade) and then drying.

Average particle sizes for this component of at least 3 micrometers up to 3,000 micrometers are preferred in order to impart a cleansing action and smoothness to the facial cleanser of the present invention. Average particle sizes of at least 100 micrometers up to 1,000 micrometers are even more preferred. The removal of organic dirt and silicones will be unsatisfactory at average particle sizes below 3 micrometers, while a foreign-material sensation appears at above 3,000 micrometers.

This component's compounding ratio will vary with the cosmetic's formulation and so is not specifically restricted. However, it is preferably 0.5 wt% to 50 wt% for solid and paste cosmetics and is preferably 0.1 wt% to 30 wt% for cream and emulsion cosmetics.

To prepare the facial cleanser of the present invention, organopolysiloxane elastomer powder as described above is blended and dispersed to homogeneity with the typical starting materials used for facial cleansers. These raw materials for facial cleansers are exemplified by surfactants, emollients, fatty acids, alkali substances, alcohols, esters, humectants, thickeners, and purified water, and thase may be used singly or as combinations of two or more.

The surfactants in this case are exemplified by nonionic aurfactants such as sorbitan fatty acid esters, glycerol fatty acid esters, decaglycerol fatty acid esters, polyglycerol fatty acid esters, propyrene glycolpentaerythritol fatty acid esters, polyoxyethylene sorbitol fatty acid esters, polyoxyethylene glycerol fatty acid esters, polyoxyethylene glycerol fatty acid esters, polyoxyethylene glycerol fatty acid esters, polyoxyethylene alkyl ethers, polyoxyethylene phytosterol-phytostal, polyoxyethylene-polyoxypropylene alkyl ethers, polyoxyethylene castor oil/hydrogenated castor oil, polyoxyethylene lanolin/lanolin alcohol, beeswax derivatives, polyoxyethylene alkylamines/fatty acid amides, polyoxyethylene polyglyceryl alkyl ethers, alkyl fatty acid triglycerides, and polyoxyalkylene/dimethylpolysiloxane copolymers; anionic surfactants such as alkyl sulfates, polyoxyethylene alkyl ether sulfatse, N-acylamino acid salts, alkyl phosphates, polyoxyethylene alkyl ether phosphates, and fatty acid salts; cationic eurfactents euch as alkylammonium salts and alkylbenzylammonium salts; and amphoteric eurfactants euch as betaine acetete, imidazolinium betaine, and lecithin.

The emollients are exemplified by plant oils such as linseed oil, soybean oil, castor oil, and coconut oil; by animal oils such as egg yolk oil, mink oil, beef tallow, lard, and equalane; by mineral oils such as ceresin, paraffins, and microcryetalline waxes; end by ellicone oils such as dimethylpolysiloxanes, methylphenylpolysiloxanes, amino-modified polysiloxanes, cyclic methylpolysiloxanes, cyclic methylphenylpolysiloxanes, cyclic methylphenylpolysiloxanes, and epoxy-modified polysiloxanes.

The fatty acids are exemplified by myristic acid, launc acid, palmitic acid, steand acid, behenic acid, lanolic acid, isostearic acid, undecylenic acid, hydrogenated animal fatty acids, hydrogenated plant fatty acids, and triple-press fatty acids.

The alkali substances are exemplified by sodium hydroxide, potassium hydroxide, calcium hydroxide, diethanolamine, and triethanolamine.

The alcohols are exemplified by lower alcohols such as ethanol, n-propanol, isopropanol, and butanol; and by higher alcohols such as lauryl alcohol, cetanol, stearyl alcohol, cleyt alcohol, lanolin alcohol, hydrogenated lanolin alcohol, hexyldecanol, octyldecanol, end behenyl alcohol.

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The estars are exemplified by fatty acid esters such as isopropyl myristate, butyl stearste, octyldodecyl neodecanoate and choleateryl stearate, and by the fatty acid estere of polyhydric alcohols such as propylene glycol didecanoate and glycerol tri-2-ethylhexanoate.

The humectants are exemplified by glycerol, propylene glycol, sorbitol, 1,3-butylene glycol, polyethylene glycol, urea, sodium factate, sodium pyrrolidonecarboxylate, polypeptides, pyroalluronic acid, and acylamino acids.

The thickening agents are exemplified by natural polymers such as guar gum, carrageenan, alginic acid, gum arabic, tragacanth, pectin, starch, xanthan gum, gelatin, caseln, and albumin; by semi-synthetic polymers such as etarch derivatives, guar gum derivatives, locust bean gum derivatives, cellulose derivatives, and alginic acid derivatives; and by eynthetic polymers such as polyvinyl alcohol, polyvinyl pymolidone, polyvinyl methacrylate, sodium polyacrylate, and polyethylene glycol. Furthermore, non-silicone powders may also be added to the facial cleanser of the present invention as long as the object of the present invention is not adversely affected. These non-eilicone powders are exemplified by plant powders, euch as the seeds and powders obtained from the apricot, almond, birch, walnut, peach, corn, eurflower and watermelon, as well as hydrogenated jojoba oil and hydrogenated coconut oil; powders of animal origin such as powdered crab shall, and powdered eggshell, as well as hydrogenated beef tallow and hydrogenated lard; organic powders such as those

obtained from polyethylene, nylon, polypropylene, polyvinyl chloride, polystyrene, and cellulose; as wall as inorganic powders such as those obtained from aluminum oxide, silica, talc, and zirconium oxide.

#### **EXAMPLES**

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The prasent invantion will be explained in the following with reference to illustrative examples. In the examples, the term parts rafars to weight parts.

#### **EXAMPLE 1**

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The following were mixed to homogeneity: 100 perts dimethylvinylsiloxy-termineted dimethylpolysiloxene having the following formula:

$$CH_2 = CH(CH_3)_2SiO (\{CH_3\}_2SiO)_{60} Si(CH_3)_2CH = CH_2,$$

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3.4 parts trimethylsilxoy-terminated methylhydrogenpolysiloxane heving the following formule:

0.3 parts polyoxyethylane (9EO) lauryl ether, end isopropanolic chloroplatinic ecid in e quantity sufficient to give 100 ppm pletinum metal proper besed on the total quentity of orgenopolysiloxane. 100 Parts purified water was edded end this was then passed through a colloid mill (colloid gap = 1 mm) end discherged into hot water (90 degrees Centigrade) to produce an organopolysiloxane elastomar powdar. Using scanning electron microscopy, this organopolysiloxane elastomer powder was found to be spherical end to heve an everage particle diameter of 250 micrometers. Furthermore, it was electic.

A cleansing cream (foam) with the composition given in Teble 1 was prepared using this organopolysitoxene elestomer powder. This cleansing creem was prapared as follows. Glycerol, potessium hydroxide, and weter were mixed in advence at 70 degrees Centigrade, and this mixture was dripped into e mixture (heeted at 70 degrees Centigrade) of stearic acid, palmitic acid, myristic ecid, leuric ecid, oleyt alcohol, lenolin-EO adduct and the organopolysitoxane elastomer powder, followed by cooling to room temperature (25 degrees Centigrade) upon the complation of eddition.

Comparative Examples 1 end 2 consisted, respectively, of this same formulation, either containing the same amount of polyethylene powder (average particle diameter = 150 micrometers) in place of the organopolysiloxene elastomer powder or lecking any powder.

Collagan membranes were prepared in advance by coating e 7 cm diemeter circular aree with 0.1 g foundation having the composition given in Teble 2. In each case, 0.1 g cleansing cream was applied end rubbed uniformly over the foundation region for 30 seconds using a finger, followed by wiping with a water-soaked towel for 10 seconds and then wiping with a dry towel.

In order to determined the cleansing effect of each cleansing creem, the brightness and engle of contact for water were datermined on the cleaned collegen mambrane respectively using a CR100 color-difference colorimeter from Minolta Camera Kebushiki Kaisha and a contact-angle measurement device from Erma Optical Works Limited.

Sensory testing of the application of each cleansing foem was conducted using a ten-member penal. The various results are reported in Table 3.

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TABLE 1

Example 1

(parts)

10.0

10.0

10.0

6.0

1.5

1.0

5.0

0.0

18.0

3.5

Comparative Example 1

(parts)

10.0

10.0

10.0

6.0

1.5

1.0

0.0

5.0

18.0

3.5

Comparative Example 2

(parta)

10.0

10.0

10.0

6.0

1.5

1.0

0.0

0.0

18.0

3.5

component

atearic acid

palmitic acid

myriatic acid

oleyl alcohol

polyethylane powder

glycerol

potassium hydroxide

lanolin-EO adduct

organopolysiloxane elastomer powder

lauric acid

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## TABLE 2

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FORMULATION OF FOUNDATION USED IN EVALUATION OF CLEANSING EFFECT				
components	quantity in parts			
eilicone-treated titar (AS61D from Toshiki Pi Kabushiki Kaisha)				
dimethylpolysiloxane/2c	m <sup>2</sup> /s (200 cst) 20			
decamethylcyclopentami	.loxane 30			
liquid paraffin (mp 70 dagreee Centigr				
milicon dioxide (R972 from Nippon Aero Kabuehiki Kaimha)				

TABLE 3

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RESULTS OF THE EVALUATIONS				
	Example 1	Comparative Example 1	Comparative Example 2	
brightness	50.1	\$5.3	58.9	
contact angle	87°	95°	103°	
sensory testing (number of pensi	ete)			
too greasy	-	-	5	
<b>smooth</b>	4	•	s	
foreign-material sensation	6	3	-	
irritating	-	7	-	

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#### **EXAMPLE 2**

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A liquid mixture was prepared from 100 parts hydroxyl-terminated dimethylpolysiloxana having the following formula:

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100 parts trimethylsiloxy-terminated methylhydrogenpolysiloxane having the following formula:

## $(CH_3)_3SiO(\{CH_3\}HSiO)_{2\delta}Si(CH_3)_3,$

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1 part stannous octoate, 1 part polyoxyethylene (8EO) olayl ether, and 1,000 parts ion-exchanged water. This was then emulsified in a colloid mill, heated at 50 degrees Centigrade for 1 hour, and then spray-dried to produce an organopolysiloxane elastomer powder. Using scanning electron microscopy, this organopolysiloxana alastomer powder was found to be spherical and to have an average particle diameter of 150 micrometers. Furthermore, it was elastic.

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A claansing cream with the composition given in Table 4 was prepared as follows using this organopolysiloxane elastomer powder. Hot water (70 degrees Centigrade) was dripped into a melt-mixture (70 degrees Centigrade) prepared from the solid paraffin, beeswax, vaseline, liquid paraffin, sorbitan sesquiisostearate, POE (20EO) sorbitan monopleate, and organopolysiloxane elastomer powder.

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Comparative Examples 3 and 4 consisted, respectively, of this same formulation in which the organopolysiloxane elastomer powder was replaced by an equal quantity of polyethylene powder (average particle diameter = 350 micrometers), and the above formulation lacking any powder.

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The cleansing affect datermination and sansory testing were conducted on each cleansing cream as described in Example 1, and the results of these evaluations are reported in Table 5.

TABLE 4

component	Example 2 (parts)	Comparative Example 3 (parte)	Comparative Example 4 (parta)
solid pareffin	10	10	10
DedeWAX	3	3	3
oetrolatum vaseline	15	15	15
liquid paraffin	41	41	41
norbiten neequiiscstearete	4.2	4.2	4.2
POE (20EO) eorbita noncoleate	n 0.8	0.8	0.8
orgenopolysiloxane alastomer powder	5	-	-
polyethylana powdar	-	5	-
vetar	20.5	20.5	20.5

### TABLE 5

RESULTS OF THE EVALUATIONS			
	Exemple 2	Comparative Example 3	Comparative Example 4
brightness	48.1	50.0	55.2
contact angl	e 85°	87°	864
sensory test (number of p			
too greasy	-	-	8
amooth	8	-	2
forzign-mate	rial		
sensation	2	1	•
irritating	-	9	-

### **EXAMPLE 3**

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A claansing lotion with the composition given in Table 8 was prepared using the organopolysiloxane elastomer powder prepared in Example 1.

The cleansing lotion was prepared by dripping lon-exchanged water with stirring Into a liquid mixture of silicona surfactant (DC3225C from Toray Silicone Company Limited), decamethylcyclopentasiloxana, tha organopolysiloxana elastomer powder and POE (20E0) sorbitan monolaurate. After confirmation of a homoganaous mixture, mixing was continued in a homomixer to obtain the cleansing lotion.

Comparativa Examplas 5 and 6 consisted, respectively, of the same formulation as above in which the organopolysitoxane elastomer powder was replaced by the same quantity of polyethylene powder (average particle size = 20 micrometers), and the same formulation as above lacking any powder.

The cleansing affect determination and sensory testing were conducted as described in Example 1. The results of these evaluations are reported in Table 7.

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TABLE 6

component	Example 3	Comparative Example 5	Comperative Example 6
	(parte)	(parts)	(parts)
silicone surfa- (DC3225C)	ctant 9.5	9.5	9.5
decamethylcycl penteelloxene	10-	10	10
organopolyeild elastomar powe		•	-
polyethylene powder	•	3	-
POE (20EO) eos monoleurate	rbiten 0.5	0.5	0.5
ion-exchanged water	74.5	74.5	74.5

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TABLE 7

	Example 3	Comperetive Example 5	Comperative Example 6
brightness	44.1	48.8	53.3
contect angle	58°	63°	68*
eeneory teeting (number of particular)			
too greeey	•	6	~
emooth	8	4	10
foreign meteriel eenection	2	•	•

<sup>55</sup> The cleanser of the present invention, because it contains an organopolysitoxane elastomer powder, characteristically will not irritate the skin, is smooth in its application, and effectively removes organic dirt and silicones from the skin.

#### Claims

- 1. A facial cleanser having the characteristic that it contains organopolysiloxane elastomer powder.
- A fecial cleanser described in Cleim 1 wherein the everage particle size of the organopolysiloxene elestomer powder is 3 micrometers to 3,000 micrometers.
  - 3. A facial cleanser described in Claim 1 wherein the organopolysiloxane elastomer powder is spherical.
- A facial cleanser described in Claim 1 wherein the content of orgenopolysitoxene elestomer powder is
   5 to 50 wt%.

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#### Patentansprüche

- 1. Gesichtsreinigungsmittel, dadurch gekennzeichnet, daß es ein pulverförmiges Organopolysiloxanelastomer enthält.
- - Gesichtsreinigungsmittel nach Anspruch 1. dad urch gekennzelchnet, deß des pulverf\u00e5rmige Orgenopolysiloxanelastomer kugelf\u00f6rmig ist.
  - Gesichtsreinigungsmittel nach Anspruch 1, dadurch gekennzelchnet, daß der Gehalt pulverförmigen Organopolysiloxanelastomers 0,5-50 Gew.-% beträgt.

#### Revendications

- Un produit de nettoyage facial caractérisé en ce qu'il contient une poudre d'élastomère d'organopolysiloxane.
  - 2. Un produit de nettoyege fecial, selon le revendication 1, dens lequel le grosseur de particule moyenne de le poudre d'électomère d'orgenopolysiloxane est de 3 micromètres à 3000 micromètres.
  - 3. Un produit de nettoyage facial selon le revendication 1, dens lequel la poudre d'élastomère d'organopolysiloxane est sphérique.
  - 4. Un produit de nettoyage feciel eelon la revendication 1, dene lequel le teneur en poudre d'élestomère d'organopolysitoxane est de 0, 5 à 50% en poide.

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